

PT-911

GPS Personal Tracker

USER MANUAL

V6.1



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1 Product Overview

PT-911 provides peace of mind by showing you with your mobile phone or PC the location of your targets via SMS or GPRS.

PT-911 has the following features

- ◆ *Tracking via SMS or GPRS (TCP)*
- ◆ *Current location report*
- ◆ *Tracking by time interval*
- ◆ *Two-way conversation*
- ◆ *SOS alert*
- ◆ *Geo-fencing control*
- ◆ *Low battery alert*
- ◆ *Speeding alert*
- ◆ *Four buttons for making phone call and/or sending message*
- ◆ *Removable and rechargeable internal battery*
- ◆ *Built-in speaker and microphone*
- ◆ *Alert when PT-911 enter/exits GPS blind area*
- ◆ *Live Voice monitoring*

2 For Your Safety

Read these simple guidelines. Not following them may be dangerous or illegal.

Read the full user manual

for more information.

Switch on Safely- Do not switch on PT-911 when wireless phone use is prohibited or when it may cause interference or danger.

Switch off in Hospitals – Follow any restrictions. Switch PT-911 off near medical equipment.

Switch off in Aircraft – Follow any restrictions. Wireless devices can cause interference in aircraft.

Switch off when refueling – Do not use PT-911 when at a refueling point. Do

not use near fuels or chemicals.

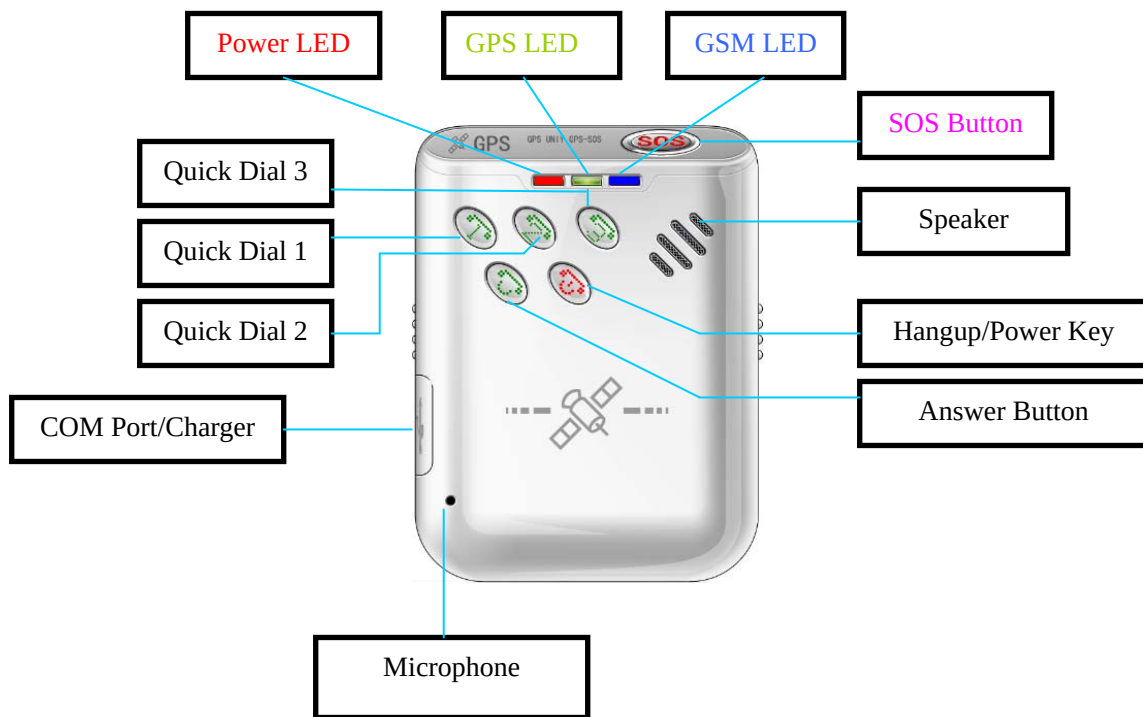
Water Resistance –PT-911 *is not water resistant. Keep it dry. Use waterproof bag if necessary.*

3 PT-911 Parameters&Panel Description

Item	Specification
Charging Voltage	DC 5V/500mA (Micro USB port)
Internal Battery	Rechargeable and removable 830 mAh battery (3.7V)
Dimension	
Weight	
Operating temperature	-20° to 55° C
Humidity	5% to 95% Non-condensing
GSM module	GSM 900/1800/1900Mhz
GPS Chipset	latest GPS (AGPS)
GPS Sensitivity	-158Db
GPS Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
Position Accuracy	10 meters, 2D RMS
Velocity Accuracy	0.1 m/s
Time Accuracy	1 us synchronized to GPS time
Default datum	WGS-84
Reacquisition	0.1 sec., average
Hot start	1 sec., average
Warm start	38 sec., average
Cold start	42 sec., average
Altitude Limit	18,000 meters (60,000 feet) max.
Velocity Limit	515 meters/second (1000 knots) max.
Acceleration Limit	Less than 4g
Jerk Limit	20 m/sec

Work time	60 hours in sleep mode and 10 hours in normal mode
LED	3 LEDs showing power, GPS, GSM status and other operation status.
Button	

Panel Description



4 Getting Started

4.1 Hardware and Accessories

- ◆ USB Power Cable
- ◆ User Manual
- ◆ Other document or software if required

4.2 Light and Button Functionality

PT-911 has four buttons and three LED lights with three different colors to indicate the status of the unit.

Red LED	indicating power status
Off	Power is off / charging is complete / working
Flashing(on for 0.01sec and off for 2.99 sec)	Low power
On	Charging

Green LED-indicating GPS status	
Off	GPS power off
Flashing(on for 0.01 second and off for 2.99 seconds)	GPS power on and fix
Flashing(on for 1 second and off for 2 seconds)	GPS power on and no fix

Blue LED-indicating GSM status	
On	One call is coming in / one call is being made
Flashing (on for 0.01 second and off for 2.99 seconds)	PT-911 is connected to GSM network
Flashing (on for 1 second and off for 2 seconds)	PT-911 is not connected to the GSM network

seconds)	network
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Power Button	To turn on/off
SOS Button	Press SOS button to make a phone call and/or send an SMS to the preset phone number.
1 Button	Press 1 button to make a phone call and/or send an SMS to the preset phone number.
2 Button	Press 2 button to make a phone call and/or send an SMS to the preset phone number.
3 Button	Press 3 button to make a phone call and/or send an SMS to the preset phone number.

4.3 First Use

Ensure that PT-911 has a working SIM installed

- ◆ Check that the SIM has not run out of credit
- ◆ Check that the SIM Lock code is turned off
Use some other mobile phone to confirm that the PIN code has not been set, and that it can dial out and receive telephone calls, and that it can connect to internet by GPRS.
- ◆ Charge the battery for at least 3 hours in power-off status using the wall charger or car charger. Red light is on during charging and is off when charging is complete.

4.4 Operation Instructions

(1) Power On/Off

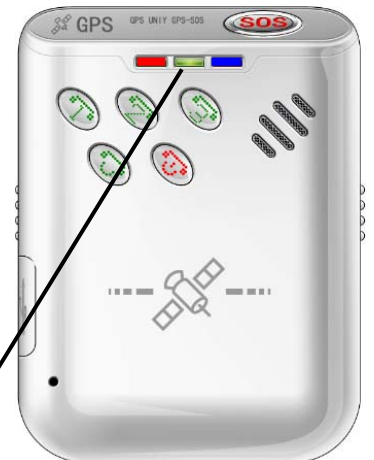
➤ Power On:

Step 1. When it is off, press the **power button** for 5 second to switch on the power.



Step 2. After power on, **GSM LED** will light on first (on 1 second and off 2 seconds for searching GSM network, or on 0.01 second and off 2.99 seconds after get GSM network).

Step 3. Some 10 seconds later, **GPS LED** starts to flash (on 1 second and off 2 seconds for searching GPS, or on 0.01 second and off 2.99 seconds after GPS fixed). By then, the device is ready to work.



➤ Power Off:

When it is on, press the power button for 3 seconds to switch off the power; Power/GPS/GSM LED will shut off right now. By then, the device is turned off.

(2) SOS Emergency Help Function

When SOS button is long pressed, PT-911 will send a SMS message and make

phone call for emergency help. The phone number can be set by the users. When 1 2 3 button is long pressed, PT-911 will make normal phone call. The phone number can be set by users. The phone number list call be set by sms command.

(3)Conversation Function

Call In: One can make phone call to PT-911 by simply dialing the SIM card number.



To receive the incoming phone call.



To refuse the incoming phone call.

Call Out: PT-911 has four speed dial; you can long press preset 4 sets of phone



(4)Connect to www.imecare.com

PT-911 will connect to www.imecare.com automatically per 5 mins to report it's position info and fetch the new configuration. Ensure that PT-911 has been registered on the www.imecare.com.

Step1. Register your PT-911 device on www.imecare.com to get username and password. The device IMEI number is required. The IMEI number is printed on the back of PT-911.

Step2. Check preset APNs list(Appendix 2)

If your GSM operator's APN is not in this list, please set APN by sms (Prefrence 5.2.1)

Step3. when APN is set, PT-911 will connect to www.imecare.com automatically per 5 mins to report it's pos info to center. You can login www.imecare.com web sit to trace the PT-911.

5 SMS Command

PT-911 will only accept commands from a user with the correct password. Commands with wrong password are ignored. **The default password is 000000.**

5.1 Basic SMS Commands

5.1.1 Return the location of the tracker

Description: To know the location of your PT-911, send an SMS or make a telephone call directly to PT-911 and it will report its location by SMS.

Command: W<password>,<000>

Notes: The default password is 000000.

Example:

SMS sent: W000000,000

SMS received:

W00,000,\$GPRMC,034522,662,A,2232,3126,N,11359,3061,E,000.0,000.0,2412
09,,,A*6E

To get PT-911's location by another easier way:

- (a) Call PT-911 using your mobile phone
- (b) After listening to the ring for 10 - 20 seconds, hang up the phone.
- (c) Then, in about 15 seconds, your mobile phone will receive an SMS with longitude and latitude.

5.1.2 Set Interval for automatic timed report

Description: Automatic timed reports will be sent to your mobile phone according to the time interval you set.

Command: W<password>,002,XXX

Notes: XXX is the interval in minute. If XXX=000 it will stop tracking

Example:

SMS sent: W000000,002,005

SMS received: W01,002

5.1.3 Stop automatic timed report

Command: W<password>,002,000

Example:

SMS sent: W000000,002,000

SMS received: W01,002

5.1.4 SOS/Call 1/Call 2/Call 3

Description: To authorize a mobile phone number for the SOS, 1, 2 or 3 button.

When the button is pressed,

a message will be sent and/or simultaneously a call will be made to the authorized number.

Command: W<password>,003,F,P, <telephone number>

Notes:

(a) F =0, cancel this function

=1, set send SMS to the preset number

=2, set call the preset number

=3, set send SMS and also Call the preset number

P =1, set a authorized number for SOS button

=2, set a authorized number for 1 button

=3, set a authorized number for 2 button

=4, set a authorized number for 3 button

(b) When one of the buttons is pressed and a call is made, you can call and talk with the tracker-holder.

(c) Press END button to hang up the call or cancel a calling

Example:

SMS sent: W000000,003,3,1,123456789

SMS received: W01,003

Meaning: When the SOS button is pressed, PT-911 will send an SMS to telephone number “123456789” and also make a phone call to it.

When a call is coming in, the blue light is on. Press ACCEPT button to receive the incoming call and then talk with the caller. To complete the conversation, hang up the call by pressing END button.

5.2 GPRS Settings by SMS

Tracking via GPRS, you should set IP, Port and APN for PT-911
Ensure that your SIM card in PT-911 supports GPRS connection prior to setting.

5.2.1 Set APN

Command: W<password>,011,APN,APN Name,APN Password

Note: If no APN name and password required, input APN only.

Example: W000000,011,CMNET,,

PT-911 will reply with an SMS (like ‘W01,011’) to confirm this setting.

5.2.2 Set Time Interval for Sending GPRS Packet

Command: W<password>,014,time interval(in unit of 10 seconds)

Example: W000000,014,00003

PT-911 will send a GPRS package every 30 seconds

6 Command List

Remarks: ***** is user’s password and the default password is 000000.

Description	Command	Remarks
Get current location	W*****,000	Get current location of 007
Change user’s password	W*****,001,#####	***** is old password

		##### is new password max 8 characters.
Set interval for automatic timed report	W*****,002,XXX	XXX is the interval in minute. If XXX=000 it will stop tracking
Set preset phone number for SOS button	W*****,003,F,P,T	F=0, to turn off this fuction; F=1, set sending SMS; F=2, set calling preset phone number; F=3, set SMS and calling (default) P=1, set a authorized number for SOS button P=2, set a authorized number for 1 button P=3, set a authorized number for 2 button P=4, set a authorized number for 3 button T: Preset phone number. Max. 16 digits
Set over speed alert When PT-911 speeds higher than the preset value, it will send one over speed alert to the SOS preset number.	W*****,005,XX	XX (the preset value of speed) =00 , to turn off this function =[01, 20] (unit: 10Km/h) For example, W000000,005,08, it will sent alert when it is over 80Km/h
Set Geo-fence alert When PT-911 moves out of preset scope, it will send one Geo-fence SMS to the SOS preset number.	W*****,006,XX	XX (preset distance to original place) =00, to turn off this function =01, 30m =02, 50m =03, 100m =04, 200m =05, 300m =06, 500m =07, 1000m =08, 2000m
Extend Settings	W*****,008,ABCDEFG	A=0, turn off the function of sending an SMS location report to the authorized phone number when it makes a call to 007. A=1, turn on the function of sending an SMS location report to the authorized phone number when it makes a call to PT-911. B=0, reserved B=1, location data complies with NMEA 0183 GPRMC protocol.

		For example: <i>\$GPRMC,072414.000,V,3114.3763,N,12131.3255,E,0.00,0.00,050805,*00</i> C=0, turn off the function to automatically hang up an incoming call. C=1, turn on the function to automatically hang up an incoming call after 4 - 5 rings. D=0, Turn off the function of sending an SMS when PT-911 is turned on. D=1, Turn on the function of sending an SMS to SOS number when PT-911 is turned on. E=0, reserved E=1, PT-911 shuts down automatically when the power voltage lower than 3V. F=0, Turn off the alert when PT-911 enters GPS blind area. F=1, Turn on the alert when PT-911 enters GPS blind area. SMS is to be sent to SOS number G=0, 3 LED lights work normally G=1, 3 LED lights stop flashing when PT-911 working. (default value is: ABCDEF=10100100)
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Presetting by SMS for GPRS tracking (Ensure that your SIM card supports GPRS connection prior to setting)		
Set ID for PT-911	W*****,010,ID	PT-911 ID must not over 14 digits.
Set APN	W*****,011,APN,APN Name,APN Password	If no APN name and password required, just insert APN only; APN defaulted as 'CMNET'; APN+APN name + password not over 39 characters.
Set IP Address and Port	W*****,012,IP,Port	IP: xxx.xxx.xxx.xxx Port: [1,65534]
Enable GPRS Tracking Function	W*****,013,X	X=0, turn off GPRS tracking (default); X=1, enable TCP
Set Time Interval for Sending GPRS Packet	W*****,014,XXXXX	XXXXX should be in five digitals and in unit of 10 seconds. XXXXX=00000, to turn off this function;

		XXXXX=00001~65535, time interval for sending GPRS packet and in unit of 10 seconds.
For more information regarding GPRS settings please refer to <GPRS Communication Protocol>		
Presetting by SMS for HTTP tracking (Ensure that your SIM card supports GPRS connection prior to setting)		
Set HTTP username and password	W*****,040,HTTP Name,HTTP Password	Set HTTP Username and Password for http report
Set Time Interval for Sending HTTP Packet	W*****,015,XXXXX	XXXXX should be in five digitals and in unit of 10 seconds. XXXXX=00000, to turn off this function; XXXXX=00001~65535, time interval for sending HTTP packet and in unit of 10 seconds.
Set phone number for wiretapping	W*****,030,T	T is the telephone number for wiretapping and max. 16 digits
Set time zone difference	W*****,032,T	T=0, to turn off this function T=[-720, 720] to set time difference in minute to GMT. Default value is GMT For those ahead of GMT, just input the time difference in minute directly. For example, W000000,032,120 '-' is required for those behind GMT. For example, W000000,032,-120.
Set character for SOS alert message	W*****,033,P,Char	P is the button number. P=1, 2, or 3. P=1, SOS button P=2, 1 button P=3, 2 button P=4, 3 button Char is the character in SOS message and max 32 characters
Get version and serial number	W*****,600	To get version and serial number of current firmware
Get IMEI	W*****,601	To get IMEI

Appedix 1

Format of SMS reply: W,###**

** Reply number
Command number

Reply number:

00: Get location succeed
01: Setting succeed
02: Setting failed
03: Format error
04: Password error
05: Command error
06: Change password error
07: Parameter error
08: No GPS data
09: Protocol not support
10: Over speed
11: Geo-Fence
12: GPS no fix
13: Port open failed
14: Timeout
15: Reject
16: Get GPS data failed
17: Allocate memory failed
18: Automatic alert
19: GPRS login

Appedix 2

Mobile Operator APN preset by 007

```
# China Mobile
# China Unicom
# Albania, vodafone AL
# Argentina, Movistar
# Argentina, Personal
# Austria, A1
# Austria, T-Mobile A
# Austria, telering
# Australia, Optus
# Australia, Telstra Mobile
# Australia, 3
# Australia, vodafone AU
# Azerbaijan, AZE ACELL
# Bangladesh, GramenPhone
# Belarus, Velcom
# Belarus, MTS
# Belgium, BASE
# Belgium, Mobistar
# Belgium, Proximus
# Botswana, MASCOM
# Brazil, Claro
# Brazil, Oi
# Brazil, TIM BRASIL
# Bulgaria, BG GLOBUL
# Bulgaria, M-Tel BG
# Cameroon, MTN CAM
# Canada, Fido
# Canada, ROGERS
# Chile, ENTEL
# Costa Rica, I.C.E.
# Croatia, T-Mobile
# Croatia, VIPnet
# Czech Republic, T-Mobile CZ
# Denmark, TDC MOBIL
# Denmark, TELIA DK
# Dominican, orange
# Egypt, Vodafone EG
# Egypt, MobiNiL
# Estonia, EE EMT
# Finland, DNA
# Finland, FI Elisa
# Finland, FI SONERA
# France, Bouygues FR
# France, Orange F
# France, SFR FR
# Ghana, Areeba
# Ghana, Onetouch
# Ghana, Tigo
# Germany, Vodafone.de
# Germany, E-Plus
# Germany, 02-de
```

Germany, T-Mobile D
Greece, COSMOTE GR
Greece, vodafone GR
Hong Kong, CSL
Hong Kong, New World
Hong Kong, SmarToneVodafone
Hong Kong, 3 HK
Hungary, H pannon
Hungary, T-Mobile H
Hungary, vodafone HU
Iceland, Siminn
India, Airtel
India, BPL MOBILE
India, IDEA
India, MTNL
Indonesia, XL
Indonesia, INDOSAT
Indonesia, Telkomsel
Ireland, METEOR IRL
Ireland, 02 IRL
Ireland, vodafone IRL
Israel, Cellcom
Israel, Orange
Italy, TIM IT
Italy, vodafone IT
Italy, WIND IT
Jamaica, Digicel
Kazakhstan, Beeline KZ
Kenya, Safaricom
Latvia, LMT LV
Latvia, TELE2 LV
Lebanon, Alfa
Lithuania, LT BITE GSM
Lithuania, OMNITEL LT
Lithuania, TELE2
Luxembourg, L LUXGSM
Luxembourg, L TANGO
Luxembourg, L VOX
Malaysia, MY CELCOM
Malaysia, DiGi
Malaysia, MY MAXIS
Malta, go mobile
Malta, vodafone MT
Mexico, TELCEL
Moldova, MOLDCCELL MD
Morocco, MEDITEL
Nepal, Mero Mobile
Netherlands, KPN NL
Netherlands, Orange NL
Netherlands, T-Mobile NL
Netherlands, Vodafone NL
New Zealand, vodafone NZ
Nigeria, MTN NG
Norway, N NetCom
Norway, N Telenor

Pakistan, Mobilink
Pakistan, Telenor PK
Pakistan, PK-UFONE
Philippines, Globe Telecom
Philippines, SMART
Poland, Era
Poland, Orange PL
Poland, Plus
Portugal, Optimus P
Portugal, TMN P
Portugal, vodafone P
Qatar, Qat-Qtel
Congo Dem. Rep, Vodacom CD
Romania, RO ORANGE
Romania, RO Vodafone
Russia, Beeline RUS
Russia, MegaFon RUS
Russia, MOTIV RUS
Russia, MTS RUS
Russia, NTC RUS
Russia, TELE2 RUS
Russia, Utel RUS
Saudi Arabia, STC
Singapore, SSTARHUB
South Africa, Cell C
South Africa, MTN-SA
South Africa, VodaCom-SA
Spain, vodafone ES
Sri Lanka, SRI DIALOG
Sri Lanka, Mobitel
Sweden, TELIA SE
Sweden, Telenor SE
Switzerland, Sunrise
Switzerland, ORANGE
Switzerland, Swisscom
Taiwan, ChungHwa
Taiwan, FarEasTone
Taiwan, KG Telecom
Thailand, AIS GSM
Thailand, DTAC
United Arab Emirates, ETISALAT
Uganda, MTN
United Kingdom, Orange UK
United Kingdom, T-Mobile UK
United Kingdom, Vodafone UK
United Kingdom, O2 UK
Ukraine, Beeline
Ukraine, Kyivstar
United States, AT&T
United States, T-Mobile
Uruguay, Movistar
Venezuela, Digital